

Subscribe (Full Service) Register (Limited Service, Free) Login

Search:

The ACM Digital Library C The Guide

H-ARCHI

US Patent & Trademark Office

## THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

## A probabilistic causal model for diagnostic problem solving, part one: integrating symbolic causal inference with numeric probabilistic inference

Source

IEEE Transactions on Systems, Man and Cybernetics archive

Volume 17, Issue 2 March/April 1987 table of contents

Special issue on artificial intelligence

Pages: 146 - 162

Year of Publication: 1987

ISSN:0018-9472

**Authors** 

Y. Peng

J. A. Reggia

Publisher

IEEE Press Piscataway, NJ, USA

Additional Information: citings index terms collaborative colleagues

**Tools and Actions:** 

Discussions

Find similar Articles

Review this Article

Save this Article to a Binder

Display in BibTex Format

#### ↑ CITINGS 7

Inien Syu, S. D. Lang, A competition-based connectionist model for information retrieval using a merged thesaurus, Proceedings of the third international conference on Information and knowledge management, p.164-170, November 29-December 02, 1994, Gaithersburg, Maryland, United States

Walter D. Potter, B. E. Tonn, M. R. Hilliard, G. E. Liepins, S. L. Purucker, R. T. Goeltz, Diagnosis, parsimony, and genetic algorithms, Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems, p. 1-8, June 1990, Charleston, South Carolina, United States

Koichi Yamada, Possibilistic causality consistency problem based on asymmetrically-valued causal model, Fuzzy Sets and Systems, v.132 n.1, p.33-48, November 16, 2002

Solomon E. Shimony, Carmel Domshlak, Complexity of probabilistic reasoning in directed-path singly-connected Bayes networks, Artificial Intelligence, v.151 n.1-2, p.213-225, December 2003

Luca Console , Claudia Picardi , Marina Ribaudo, Process algebras for systems diagnosis, Artificial Intelligence, v.142 n.1, p.19-51, November 2002

Klaus Julisch, Clustering intrusion detection alarms to support root cause analysis, ACM Transactions on Information and System Security (TISSEC), v.6 n.4, p.443-471, November 2003

#### **小 INDEX TERMS**

#### Classification:

G. Mathematics of Computing

A probabilistic causal model for diagnostic problem solving, part one: integrating symboli... Page 2 of 2

I. Computing Methodologies

I.2 ARTIFICIAL INTELLIGENCE

#### **General Terms:**

Design, Theory

#### ↑ Collaborative Colleagues:

Y. Peng:

Y. T. Chew

L. Fong

Nenad Ivezic

M. Kinnaert

J. Qiu

J. A. Reggia

T. Rhodes

C. Shu

J. A. Reggia: B-T. B. Chu

J. D. Lohn

Y. Peng

S. B. Seidman

P. Y. Wang

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc. Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player

Real Player



Subscribe (Full Service) Register (Limited Service, Free) Login

Search: • The ACM Digital Library • The Guide

ne Guide Si∋akok

US Patent & Trademark Office

# THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

## Probabilistic reasoning in expert systems: theory and algorithms

Buy/A Book! amazon.com.

BARNES&NOBLE®

Source

Pages: 433

Year of Publication: 1990

ISBN:0-471-61840-3

Author

Richard E. Neapolitan Northeastern Illinois Univ., Chicago

**Publisher** 

John Wiley & Sons, Inc. New York, NY, USA

Additional Information: citings index terms review collaborative colleagues

**Tools and Actions:** 

Discussions Find similar Books Review this Book

Save this Book to a Binder

Display in BibTex Format

#### ↑ CITINGS 21

Alexander V. Kozlov , Jaswinder Pal Singh, A parallel Lauritzen-Spiegelhalter algorithm for probabilistic inference, Proceedings of the 1994 conference on Supercomputing, p.320-329, December 1994, Washington, D.C., United States

Chun-Hung Tzeng, A probability propagation in hypertrees, Proceedings of the 1993 ACM conference on Computer science, p.237-242, February 16-18, 1993, Indianapolis, Indiana, United States

Alexander V. Kozlov , Jaswinder Pal Singh, A parallel Lauritzen-Spiegelhalter algorithm for probabilistic inference, Proceedings of the 1994 ACM/IEEE conference on Supercomputing, November 14-18, 1994, Washington, D.C.

H. R. Keshavan, Introduction to the Special Section on Probabilistic Reasoning, IEEE Transactions on Pattern Analysis and Machine Intelligence, v.15 n.3, p.193-195, March 1993

Ioannis Tsamardinos, Constantin F. Aliferis, Alexander Statnikov, Time and sample efficient discovery of Markov blankets and direct causal relations, Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining, August 24-27, 2003, Washington, D.C.

Michel C. Desmarais, Jiming Liu, Experimental results on user knowledge assessment with an evidential reasoning methodology, Proceedings of the 1st international conference on Intelligent user interfaces, p.223-226, January 04-07, 1993, Orlando, Florida, United States

Mark Bloemeke, An algorithm for the recovery of both target joint beliefs and full belief from Bayesian networks, Proceedings of the 36th annual Southeast regional conference, p.136-142, April 1998

Bernhard Strohmeier, Concrete multidimensional statistics in APL2, ACM SIGAPL APL Quote Quad,

#### v.25 n.4, p.185-192, June 1995

Luis M. de Campos , José A. Gámez , Serafín Moral, On the problem of performing exact partial abductive inference in Bayesian belief networks using junction trees, Technologies for constructing intelligent systems: tools, Physica-Verlag GmbH, Heidelberg, Germany, 2002

Jie Cheng, David A. Bell, Weiru Liu, Learning belief networks from data: an information theory based approach, Proceedings of the sixth international conference on Information and knowledge management, p.325-331, November 10-14, 1997, Las Vegas, Nevada, United States

Inien Syu, S. D. Lang, A competition-based connectionist model for information retrieval using a merged thesaurus, Proceedings of the third international conference on Information and knowledge management, p.164-170, November 29-December 02, 1994, Gaithersburg, Maryland, United States

R. Bhatnagar, L. N. Kanal, Structural and Probabilistic Knowledge for Abductive Reasoning, IEEE Transactions on Pattern Analysis and Machine Intelligence, v.15 n.3, p.233-245, March 1993

Petri Kontkanen , Jussi Lahtinen , Petri Myllymäki , Henry Tirri, Unsupervised Bayesian visualization of high-dimensional data, Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining, p.325-329, August 20-23, 2000, Boston, Massachusetts, United States

Jie Cheng, Christos Hatzis, Hisashi Hayashi, Mark-A. Krogel, Shinichi Morishita, David Page, Jun Sese, KDD Cup 2001 report, ACM SIGKDD Explorations Newsletter, v.3 n.2, January 2002

Steven B. Gillispie, Michael D. Perlman, The size distribution for Markov equivalence classes of acyclic digraph models, Artificial Intelligence, v.141 n.1, p.137-155, October 2002

Solomon E. Shimony, Carmel Domshlak, Complexity of probabilistic reasoning in directed-path singly-connected Bayes networks, Artificial Intelligence, v.151 n.1-2, p.213-225, December 2003

B. Stewart, Predicting project delivery rates using the Naive-Bayes classifier, Journal of Software Maintenance: Research and Practice, v.14 n.3, p.161-179, May 2002

R. P. Goldman, E. Cherniak, A Language for Construction of Belief Networks, IEEE Transactions on Pattern Analysis and Machine Intelligence, v.15 n.3, p.196-208, March 1993

Jean Dezert, Combination of paradoxical sources of information within the neutrosophic framework, Proceedings of the first international conference on Neutrosophy, neutrosophic logic, neutrosophic set, neutrosophic probability and statistics, p.22-49, December 01-03, 2001

Fabio Crestani, Mounia Lalmas, Cornelis J. Van Rijsbergen, Iain Campbell, "Is this document relevant?...probably": a survey of probabilistic models in information retrieval, ACM Computing Surveys (CSUR), v.30 n.4, p.528-552, Dec. 1998

Fabio Crestani, Mounia Lalmas, Logic and uncertainty in information retrieval, Lectures on information retrieval, Springer-Verlag New York, Inc., New York, NY, 2001

#### **↑ INDEX TERMS**

#### **Primary Classification:**

I. Computing Methodologies

← I.2 ARTIFICIAL INTELLIGENCE

• I.2.3 <u>Deduction and Theorem Proving</u>

Subjects: Uncertainty, "fuzzy," and probabilistic reasoning

### **Additional Classification:**

- G. Mathematics of Computing
- G.2 DISCRETE MATHEMATICS
- I. Computing Methodologies
- S I.2 ARTIFICIAL INTELLIGENCE

#### **General Terms:**

Algorithms, Design, Theory

#### **↑ REVIEW**

"Randy L. Garrett"

While the focus of this graduate-level textbook is on causal networks, it discusses a number of approaches to adding reasoning under uncertainty to expert systems. It deals with numerically representing uncertainty in expert systems when the u <u>more...</u>

#### ↑ Collaborative Colleagues:

Richard E. Neapolitan: James R. Kenevan Kumarss Naimipour

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.

Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player